

## The UK Trip

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The United Kingdom (UK) has been a source of inspiration and a working ground of many a great work. It is also a place where I studied and where I find much resource and connection for my research. I have been in the UK since 16 years ago, but this is the first time ever for me for the purpose of enhancing my research career and networks.

In France, I had spent one month at the University of Paris I at Sorbonne/Pantheon, doing mathematics in economics. So there is a possibility that I may be able to spend some time there by crossing over from the UK.

I have a project for designing and implementing observatories for countries this region. The project is called the *Prototype observatory for future of the country in science*.

Great Britain has the Multielement Radio Linked Interferometer Network (MERLIN), which has its centre at Jodrell Bank Observatory at Macclesfield in Cheshire the owner of facilities of which is University of Manchester (UM) to which I am attached as an alumnus. My connection and experience at the facility would definitely increase the possibility of success for my project.

One of my projects has to do with isomorphism in language, which includes natural languages. Not many researchers to my best knowledge, work in precisely this area. But of other works closely relevant to it, the UK is among the leaders and pioneers. It will be helpful for my research if I could spend some time at the School of Oriental and African Studies (SOAS) in London. Several links in my connections already lead me there.

I planned to visit Professor Emeritus David Bell at the department of mathematics, University of Manchester. I also planned to use the archives at John Rylands University Library of Manchester (JRULM) for my research on history of mathematics, in particular works from the 19<sup>th</sup> century on positive quadratic form, as well as works from earlier centuries leading towards it

Apart from that, a visit the Astronomy and Astrophysics group at the School of Physics and Astronomy at UM could be useful. They not only own Jodrell Bank, but also is a part of the world-wide Very Long Baseline Interferometry (VLBI), a network expanding across the globe which links radio telescope together. Ideally speaking, my Observatory Prototype for South-east Asia (OPSA) project should link this region with this VLBI network. I have had for over ten years from a controlling body (*KV*) a certificate for being a qualified communication engineer, but have never used it. Projects like this OPSA, in a way, lets me use the qualification to do something towards a good cause.

Visit Professor Emeritus Graham Davies, who was the supervisor for my PhD, at the Corrosion and Protection Centre Industrial Services in the University of Manchester. I am interested in projects related to Chemical Engineering and geometry, for example the spatial distribution oil in reservoirs, and the same of uranium deposits in copper ore.

I plan to travel to Jodrell Bank in Cheshire and spend some time at the observatory there. The place is approximately one hour's drive from Manchester.

I try to be in London for approximately one month, to visit SOAS and other places, as well as to read at the British Library, which contains several interesting items that are unavailable at JRULM. I also plan to visit Professor George Rowlands at the Physics Department, University of Warwick, possibly to spend some time with the astronomy and mathematics group there.